



Practitioner's Docket No. 1012-166C2

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Re application of: Damian Hajduk et al.

Application No.: 10/712,617

Group No.: 2856

Filed: 11/12/2003

Examiner: Larkin, Daniel S.

For: RHEOMETER FOR RAPIDLY MEASURING SMALL QUANTITY SAMPLES

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**INFORMATION DISCLOSURE STATEMENT**

Applicants submit this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Copies of some foreign patent documents and non-patent literature together with a listing on forms PTO/SB/08A and PTO/SB/08B are submitted herewith. Copies of cited U.S. patents and U.S. patent application publications the remaining foreign patent documents and non-patent literature have not been provided due to the waiver of the

---

**CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))**

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

☒ deposited with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EV573179241US, addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 11-22-04

**FACSIMILE**

☐ transmitted by facsimile to the Patent and Trademark Office.

Roni L. Masquelier  
**Signature**

Roni L. Masquelier  
(type or print name of person certifying)

requirement under 37 CFR 1.98 (a)(2)(i) or due to their presence in the parent application. Applicants respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

This Information Disclosure Statement is being submitted after the mailing of a first Office Action but before the final rejection. A fee of \$180.00 is believed to be due. Please charge any fee deficiencies to deposit account 50-0496.

Date: 11/22/04

Christopher J. Voci

Christopher J. Voci  
Registration No. 45,184  
Dobrusin & Thennisch PC  
29 W. Lawrence St., Suite 210  
Pontiac, Michigan 48342  
248-593-9900  
Customer No. 46845

Please type a plus sign (+) inside this box → +

PTO/SB/08A (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **1** of **2**

### Complete if Known

Application Number	10/712,617
Filing Date	11/12/2003
First Named Inventor	Damian Hajduk et al.
Group Art Unit	2856
Examiner Name	Larkin, Daniel S.
Attorney Docket Number	1012-166C2

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		4,343,190		Danko et al.	08/10/1982	
		4,567,774		Manahan et al.	02/04/1986	
		4,602,501		Hirata	07/29/1986	
		4,794,788		Masters et al.	01/03/1989	
		4,854,175		Budhu	08/08/1989	
		4,896,098		Haritonidis et al.	01/23/1990	
		4,941,346		Suzuki et al.	07/17/1990	
		5,052,228		Haritonidis	10/01/1991	
		5,089,696		Turpin	02/18/1992	
		5,199,298		Ng et al.	04/06/1993	
		5,253,513		Van Arsdale et al.	10/19/1993	
		5,271,266		Eschbach	12/21/1993	
		5,277,058		Kalyon et al.	01/11/1994	
		5,314,572		Core et al.	05/24/1994	
		5,326,726		Tsang et al.	07/05/1994	
		5,345,824		Sherman et al.	09/13/1994	
		5,357,783		Eschbach	10/25/1994	
		5,374,792		Ghezze et al.	12/20/1994	
		5,417,111		Sherman et al.	05/23/1995	
		5,454,904		Ghezze et al.	10/03/1995	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	96/14930		Highbright Holdings Limited	05/23/1996		
		JP	55-65136		Tateishi	11/05/1980		
		WO	00/36410		Symyx Technologies, Inc.	06/22/2000		

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,504,026		Kung	04/02/1996	
		5,511,428		Goldberg et al.	04/30/1996	
		5,610,325		Rajagopal et al.	03/11/1997	
		5,623,096		Bandyopadhyay	04/22/1997	
		5,659,195		Kaiser et al.	08/19/1997	
		5,750,884		Field	05/12/1998	
		5,883,310		Ho et al.	03/16/1999	
		5,943,223		Pond	08/24/1999	
		5,948,993		Ting et al.	09/07/1999	
		5,985,356		Scuhltz et al.	11/16/1999	
		6,023,962		Wang et al.	11/02/2000	
		6,151,123		Nielsen	11/21/2000	
		6,157,449		Hajduk	12/05/2000	
		6,182,499	B1	McFarland et al.	02/06/2001	
		6,196,059		Kosslinger et al.	03/06/2001	
		6,331,438		Aylott et al.	12/18/2001	
		6,336,353	B2	Matsiev et al.	01/08/2002	
		6,341,532		Xu et al.	01/29/2002	
		6,393,898	B1	Hajduk et al.	05/28/2002	

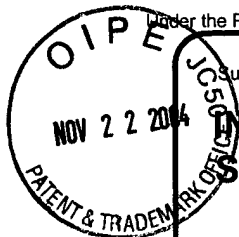
[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 0

### Complete if Known

Application Number	10/712,617
Filing Date	11/12/2003
First Named Inventor	Damian Hajduk et al.
Group Art Unit	2856
Examiner Name	Larkin, Daniel S.
Attorney Docket Number	1012-166C2

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Braithwaite, Gavin J.C. and McKinley, Gareth H., "Microrheometry For Studying The Rheology and Dynamics of Polymers Near Interfaces," Appl. Rheol. 9, 1, 27-33 (1999)	
		Fruh, S.M. et al., "Recoverable Shear Measurements in a Parallel Plate Rheometer", AIChE Journal, Vol. 16, No. 6, Nov. 1970, pp. 907-910	
		Schmidt, Martin A., et al., "Design and Calibration of a Microfabricated Floating-Element Shear-Stress Sensor," IEEE Transactions on Electron Devices, Vol. 35, No. 6, 750-757 (1988)	
		Shajii, Javad, et al., "A Microfabricated Floating-Element Shear Stress Sensor Using Wafer-Bonding Technology," Journal of Microelectromechanical Systems Vol. 1, No. 2, 89-94 (1992)	

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

<b>Application Number</b>	10/712,617
<b>Filing Date</b>	11/12/2003
<b>First Named Inventor</b>	Damian Hajduk et al.
Group Art Unit	2856
<b>Examiner Name</b>	Larkin, Daniel S.
<b>Attorney Docket Number</b>	1012-166C2

[illegible][illegible]

Examiner  
Signature

Date ..
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**